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SFUND RECORDS CTR  
0639-00247ECOLOGY AND ENVIRONMENT, INC.  
FIELD INVESTIGATION TEAM  
SITE SAFETY PLAN

## A. GENERAL INFORMATION

SITE: Montrose Chemical Job No.: R9-8602-04B  
LOCATION: Torrance, CA  
PLAN PREPARED BY: John Moe DATE: 3/16/85  
APPROVED BY: Kimberley Williams Bean / R. Kayson DATE: 3/19/85  
OBJECTIVE(S): Offsite split sampling - receiving, packaging and shipping EPA split  
samples. Sampling is one-time event to characterize offsite contamination.  
PROPOSED DATE OF INVESTIGATION: April, 1986 - Exact Dates Pending  
BACKGROUND REVIEW: Complete: X Preliminary:         
DOCUMENTATION/SUMMARY: Overall Hazards: Serious:        Moderate:         
Low:        Unknown:       

## B. SITE/WASTE CHARACTERISTICS

WASTE TYPE(S): Liquid        Solid X Sludge        Gas         
Corrosive        Ignitable        Radioactive        Volatile         
Toxic X Reactive        Unknown        Other (Name)       

FACILITY DESCRIPTION: Facility that produced DDT from 1947 - 1982. Site closed in  
1982 and capped in 1985.

Principal Disposal Method (type and location): Offsite disposal to various landfills  
and ocean dumpsites.

Unusual Features (dike integrity, power lines, terrain, etc.): Site closed in 1982,  
capped in 1985.

Status: (active, inactive, unknown) Inactive

History: (injuries; complaints; previous agency action): Wide range of sampling  
has occurred over past three years at site. Onsite soils have shown DDT levels  
as high as 95,000 ppm. Contamination offsite may be caused by surface runoff  
and/or aerial dispersion.

DECONTAMINATION PROCEDURES:

Equipment: Equipment drop set up at hot line. Gloves, Tyveks and booties discarded  
in garbage can when crossing line. Hand wash bucket set up. Non phosphate  
detergent (Alconox).for decon.

**SITE ENTRY PROCEDURES:** Permission will be obtained through EPA Project Officer.

To be determined

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**C. HAZARD EVALUATION**

Summary (attach copy of available chemical information from Saxs, Merck, Index, Ohmtads, etc.): See attached sheets.

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**D. SITE SAFETY PLAN**

PERIMETER ESTABLISHMENT: Map/Sketch Attached? X Site Secured?       

Perimeter Identified? X Zone(s) of Contamination Identified?       

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**PERSONAL PROTECTION:**

Level of Protection: A        B        C        D X

Modifications: APR's required if >5 ppm organic vapors detected with HNu. Tyvek,  
Latex gloves, rubber boots.

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Surveillance Equipment and Materials: HNu with 10.2 ev. probe

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**E. EMERGENCY INFORMATION**

(Use Supplemental Sheets if Necessary)

EMERGENCY PRECAUTIONS

Acute Exposure Symptoms

(see attached sheets)

vomiting, numbness,

partial paralyses of

extremities, convulsions

First Aid

induce vomiting

and flood with water

avoid oil laxatives

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LOCAL RESOURCES

(Name, Address and Phone Number)

Ambulance 911

Hospital Emergency Room Harbor UCLA (213)533-2383

Poison Control Center (213)484-5151

Police (incl. Local, County Sheriff, State) 911

Fire Department 911

Airport LAX

Explosives Unit -

Agency Contact (EPA, State, Local, USCG, etc.) (415)974-7455 T. Gioia

Local Laboratory -

UPS/Federal Express -

Client Contact John Kallock (213)323-1056 (Montrose)

SITE RESOURCES

Water Supply None onsite - bring

Telephone (213)771-2034

Radio

Other

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Emergency Contacts

1. Mr. Raymond Harbison (University of Arkansas) ..... (501) 661-5766 or 661-5767  
(501) 370-8263 (24 hour)
2. Ecology and Environment, Inc. Safety Coordinator/  
D. Dahlstrom ..... (716) 632-4491 (office)  
(716) 741-2384 (home)

Medtox Hotline

1. Twenty-four hour answering service - (501) 370-8263

What to Report:

- o State: "This is an emergency."
  - o Your name, region, and site.
  - o Telephone number to reach you.
  - o Your location.
  - o Name of person injured or exposed.
  - o Nature of emergency.
  - o Action taken.
2. One of three toxicologists (Drs. Raymond Harbison, Richard Freeman, or Robert James) will contact you. Repeat the information given to the answering service.
  3. If a toxicologist does not return your call within 15 minutes, call the following persons in order until contact is made:  
E & E Corporate Headquarters (EST 0830-1700) - (716) 632-4491
    - a. Twenty-four hour line - (716) 631-9530
    - b. Corporate Safety Director - David Dahlstrom (home - (716) 741-2384)
    - c. Assistant Corporate Safety Officer - Steve Sherman (home - (716) 688-0084)

Emergency Routes

Directions to Hospital (incl. MAP) \_\_\_\_\_

South on Normandie to Carson Street; left on Carson, right into Emergency Clinic.

See attached map.

Other \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

X

## F. EQUIPMENT CHECKLIST

### PROTECTIVE GEAR

#### LEVEL A

SCBA \_\_\_\_\_

SPARE AIR TANKS \_\_\_\_\_

ENCAPSULATED SUIT \_\_\_\_\_

SURGICAL GLOVES \_\_\_\_\_

NEOPRENE SAFETY BOOTS \_\_\_\_\_

BOOTIES \_\_\_\_\_

GLOVES (TYPE \_\_\_\_\_) \_\_\_\_\_

OUTER WORK GLOVES \_\_\_\_\_

HARD HAT \_\_\_\_\_

CASCADE SYSTEM \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

#### LEVEL C

ULTRA-TWIN RESPIRATOR \_\_\_\_\_

POWER AIR PURIFYING RESPIRATOR \_\_\_\_\_

CARTRIDGES (TYPE \_\_\_\_\_) \_\_\_\_\_

ROBERTSHAW ESCAPE MASK \_\_\_\_\_

CHEMICAL RESISTANT COVERALLS \_\_\_\_\_

PROTECTIVE COVERALL  
(TYPE \_\_\_\_\_) \_\_\_\_\_

RAIN SUIT \_\_\_\_\_

BUTYL APRON \_\_\_\_\_

SURGICAL GLOVES \_\_\_\_\_

GLOVES (TYPE \_\_\_\_\_) \_\_\_\_\_

OUTER WORK GLOVES \_\_\_\_\_

NEOPRENE SAFETY BOOTS \_\_\_\_\_

HARD HAT WITH FACE SHIELD \_\_\_\_\_

#### LEVEL B

SCBA \_\_\_\_\_

SPARE AIR TANKS \_\_\_\_\_

CHEMICAL RESISTANT COVERALLS \_\_\_\_\_

PROTECTIVE COVERALL  
(TYPE \_\_\_\_\_) \_\_\_\_\_

RAIN SUIT \_\_\_\_\_

BUTYL APRON \_\_\_\_\_

SURGICAL GLOVES \_\_\_\_\_

GLOVES (TYPE \_\_\_\_\_) \_\_\_\_\_

OUTER WORK GLOVES \_\_\_\_\_

NEOPRENE SAFETY BOOTS \_\_\_\_\_

BOOTIES \_\_\_\_\_

HARD HAT WITH FACE SHIELD \_\_\_\_\_

CASCADE SYSTEM \_\_\_\_\_

MANIFOLD SYSTEM \_\_\_\_\_

#### LEVEL D

ULTRA-TWIN RESPIRATOR (AVAILABLE) \_\_\_\_\_ X

CARTRIDGES (TYPE GMC-H) \_\_\_\_\_ X

ROBERTSHAW ESCAPE MASK (AVAILABLE) \_\_\_\_\_

CHEMICAL RESISTANT COVERALLS \_\_\_\_\_

PROTECTIVE COVERALL  
(TYPE TYVEK) \_\_\_\_\_ X

RAIN SUIT \_\_\_\_\_

NEOPRENE SAFETY BOOTS \_\_\_\_\_ X

BOOTIES \_\_\_\_\_ X

WORK GLOVES \_\_\_\_\_ X

HARD HAT WITH FACE SHIELD \_\_\_\_\_ X

SAFETY GLASSES \_\_\_\_\_ X

TLD BADGE \_\_\_\_\_ X

\_\_\_\_\_

\_\_\_\_\_

SURGICAL  
NEOPRENE

X

## VAN EQUIPMENT

TOOL KIT  
HYDRAULIC JACK  
LUG WRENCH  
TOW CHAIN  
VAN CHECK OUT  
GAS  
OIL  
ANTIFREEZE  
BATTERY  
WINDSHIELD  
TIRE PRESS

## MISCELLANEOUS (CONT.)

BINOCULARS  
MEGAPHONE  
CAMERA

## MISCELLANEOUS

PITCHER PUMP  
SURVEYOR'S TAPE  
100 FIBERGLASS TAPE  
300 NYLON ROPE  
NYLON STRING  
SURVEYING FLAGS  
FILM  
WHEEL BARROW  
BUNG WRENCH  
SOIL AUGER  
PICK  
SHOVEL  
CATALYTIC HEATER  
PROPANE GAS  
BANNER TAPE  
SURVEYING METER STICK  
CHAINING PINS & RING  
TABLES  
WEATHER RADIO

INSTRUMENTATION

OVA	_____
THERMAL DESORBER	_____
O2/EXPOSIMETER	_____
EXPLOSIMETER CALIBRATION KIT	_____
HNU	<u>X</u>
VICTOREEN 471	_____
MAGNETOMETER	_____
PIPE LOCATOR	_____
WEATHER STATION	_____
DRAEGER PUMP	_____
BRUNTON COMPASS	_____

FIRST AID EQUIPMENT

FIRST ID KIT	<u>X</u>
OXYGEN ADMINISTRATOR	_____
STRECHER	_____
PORTABLE EYE WASH	_____
BLOOD PRESSURE MONITOR	_____
RADIATION BADGES	_____
FIRE EXTINGUISHER	_____

DECON EQUIPMENT

WASH TUBS	_____
BUCKETS	<u>X</u>
SCRUB BRUSHES	_____
PRESSURIZED SPRAYER	_____
DETERGENT (TYPE <u>Alconox</u> )	<u>X</u>
SOLVENT (TYPE _____)	_____
DEIONIZED WATER	<u>X</u>

DECON EQUIPMENT (CONT.)

PLASTIC SHEETING	<u>X</u>
TARPS	_____
TRASH BAGS	<u>X</u>
TRASH CANS	_____
MASKING TAPE	_____
DUCT TAPE	<u>X</u>
PAPER TOWELS	<u>X</u>
FACE MASK	_____
FACE MASK SANITIZER	_____
FOLDING CHAIRS	_____
STEP LADDER	_____

SAMPLING EQUIPMENT

Strapping Tape & Disp.	_____
Traffic Reports	_____
Chain of Custody	_____
Inspector Seals	_____
Ziplock Bags	_____
Large Bags	_____
Vermiculite	_____
Bubble Pack	_____
Paint Cans	_____
DOT Labels	_____
Ice Chests	_____
Markers	_____
FEX Airbills	_____

X



Chemical Name DDT Date 3/16/86  
DOT Name/U.N. No. \_\_\_\_\_ Job No. \_\_\_\_\_  
CAS Number \_\_\_\_\_

NIOSH/OSHA Pocket Guide   Verschueren   Marck Index   Hazardline   Chris (Vol. 11)

Toxic and Hazardous Safety Manual   ACGIH   Other: \_\_\_\_\_

Chemical Formula C14 H9 C15 Molecular Weight 355  
Physical State Crystals Solubility (H<sub>2</sub>O) .00001G Boiling Point -  
Flash Point 162°F Vapor Pressure/Density .00000017 Freezing Point \_\_\_\_\_  
Specific Gravity 1.56 Odor/Odor Threshold \_\_\_\_\_ Flammable Limits \_\_\_\_\_  
Incompatibilities Strong Oxidizers

TLV-TWA	_____	PEL	1 mg/m <sup>3</sup>	Odor Characteristics	_____
IDLM	-	Human	_____	Aquatic	4
Route of Exposure				inhalation	
Carcinogen	X	Teratogen		Mutagen	

**See Safety Plan**

**See Safety Plan**

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Symptoms:	Acute:	<u>Weakness, vomiting, apprehension,</u>
		<u>diarrhea, tremors</u>
	Chronic:	<u>Liver damage</u>

ECOLOGY AND ENVIRONMENT, INC.  
HAZARD EVALUATION OF CHEMICALS

Chemical Name Benzene Date 3/16/86  
DOT Name/U.N. No. \_\_\_\_\_ Job No. R9-8602-04A  
CAS Number \_\_\_\_\_

Reference Consulted (circle):

NIOSH/OSHA Pocket Guide Verschueren Marck Index Hazardline Chris (Vol. 11)

Toxic and Hazardous Safety Manual ACGIH Other: \_\_\_\_\_

Chemical Properties: (Synonyms: \_\_\_\_\_)

Chemical Formula C<sub>6</sub>H<sub>6</sub> Molecular Weight 78.08  
Physical State Liquid Solubility (H<sub>2</sub>O) 820 ppm Boiling Point 176°F  
Flash Point 12°F Vapor Pressure/Density 2-8 Freezing Point \_\_\_\_\_  
Specific Gravity .8765 Odor/Odor Threshold 1.5-5 ppm Flammable Limits \_\_\_\_\_  
Incompatibilities Oxidizers, sulfuric acid, potassium

Biological Properties:

TLV-TWA 10 ppm PEL 10 ppm Odor Characteristics aromatic  
IDLH 2000 ppm Human \_\_\_\_\_ Aquatic 4 Rat/Mouse \_\_\_\_\_  
Route of Exposure inhalation, contact, ingestion  
Carcinogen X Teratogen \_\_\_\_\_ Mutagen \_\_\_\_\_

Handling Recommendations: (Personal protective measures)

See Safety Plan

Monitoring Recommendations:

See Safety Plan

Disposal/Waste Treatment:

See Safety Plan

Health Hazards and First Aid:

immediately wash area do not induce vomiting

Symptoms: Acute: Headache, drowsiness, dizziness,  
vomiting  
Chronic: headache, anorexia, palcor anemia